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## [54] AIR PURIFICATION APPARATUS

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## [57] ABSTRACT

**PURPOSE:** To efficiently deodorize, by equipping a light to radiate ultraviolet against a photocatalyst, putting a dust collecting part in the windward of the photocatalyst, and installing a ventilator.

**CONSTITUTION:** By operation of a ventilator 8, powder dust- and unpleasant odor-contg. air is sucked from a grill 9, relatively large dust is captured in a prefilter 2 and fine dust and smoke are captured in a fiber filter 3, and then unpleasant odor compds. with low b.p. such as  $\text{NH}_3$ , amines,  $\text{H}_2\text{S}$ , mercaptans, aldehydes, etc., are decomposed by a photocatalyst layer 5 (Pt-carrying  $\text{TiO}_2$ ) in the opposite of an ultraviolet radiating light 6 and blown from a blowing grill 11.

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